

REVISED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/108770 A1

(51) International Patent Classification⁷: **C08F 2/38**,
20/10, 12/08, C07C 327/18, 329/12

(21) International Application Number:
PCT/US2004/016718

(22) International Filing Date: 27 May 2004 (27.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/474,538 30 May 2003 (30.05.2003) US

(71) Applicant (*for all designated States except US*): **RENSE-
LAER POLYTECHNIC INSTITUTE** [—/US]; Office of
Technology Commercialization, 110 8th Street, Troy, New
York 12180 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BENICEWICZ,
Brian** [US/US]; 19 Loudon Heights N., Loudonville, New
York 12211 (US). **LI, Chunzhao** [CN/US]; 332 Congress
Street, Apartment 2, Troy, New York 12180 (US).

(74) Agents: **GIOENI, Mary Louise** et al.; **HESLIN
ROTHENBERG FARLEY & MESITI P.C.**, 5 Columbia
Circle, Albany, New York 12203 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

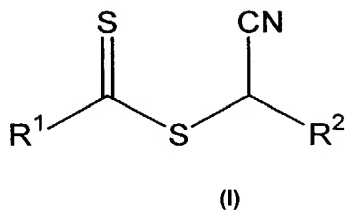
- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the revised international search
report: 20 January 2005

(15) Information about Correction:
see PCT Gazette No. 03/2005 of 20 January 2005, Sec-
tion II

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: LOW ODOR CHAIN TRANSFER AGENTS FOR CONTROLLED RADICAL POLYMERIZATION



(57) Abstract: The present invention relates to low odor a-cyano-dithiocarboxylic ester compounds for use as chain transfer agents in free radical polymerizations, and polymerization processes employing them.

WO 2004/108770 A1